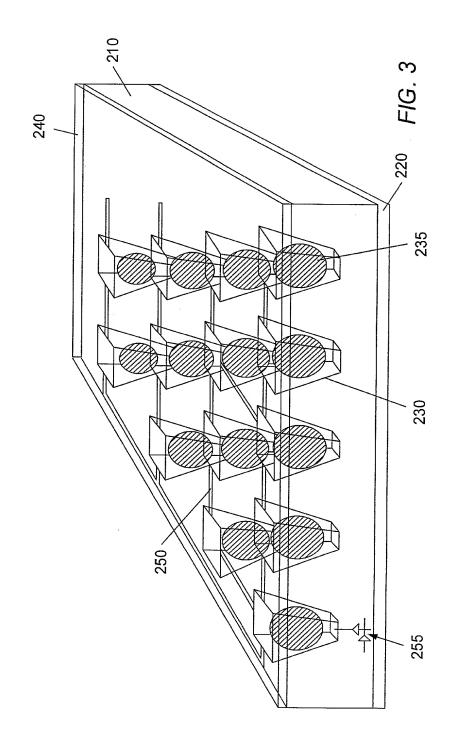


F/G. 2



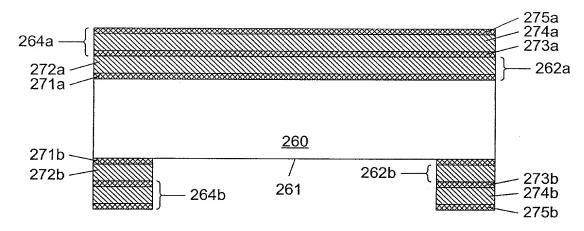


FIG. 4A

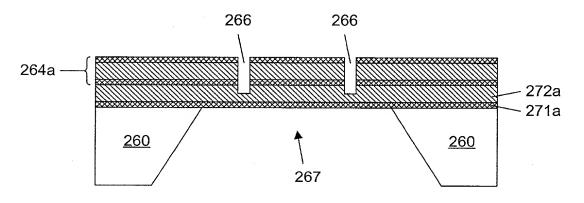


FIG. 4B

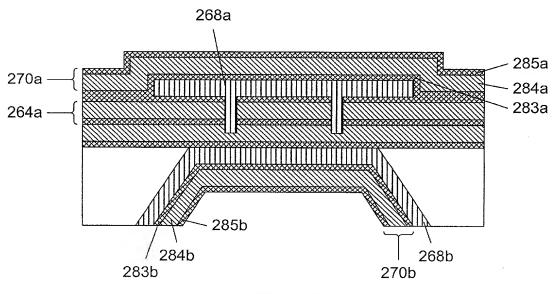


FIG. 4C

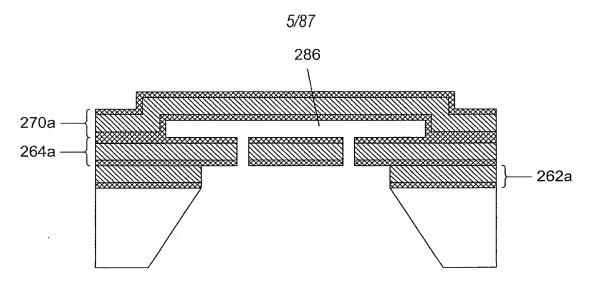


FIG. 4D

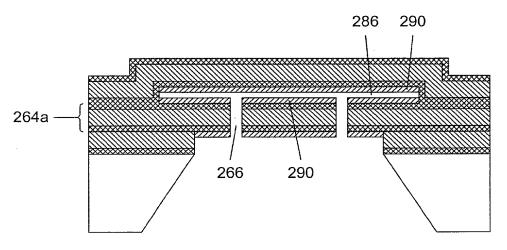


FIG. 4E

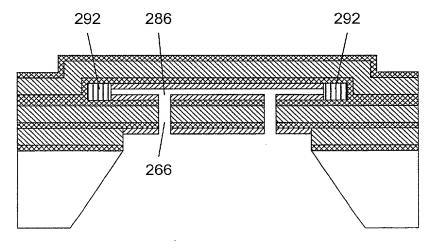
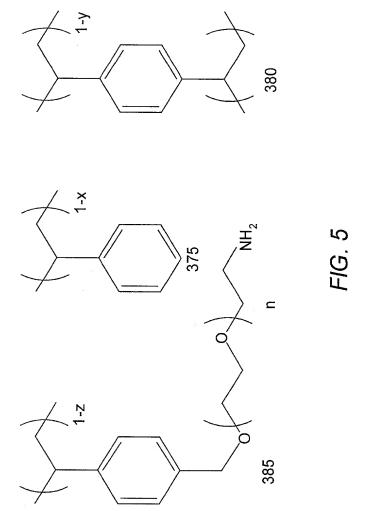
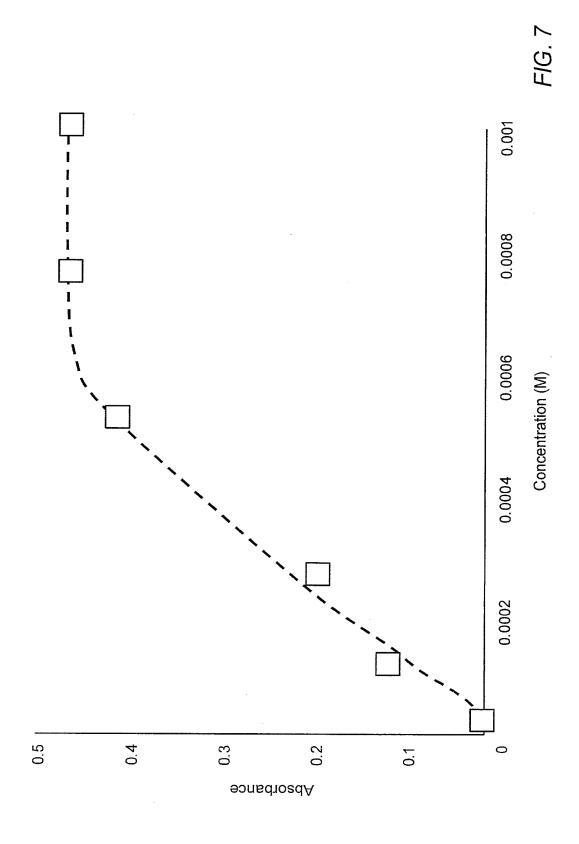
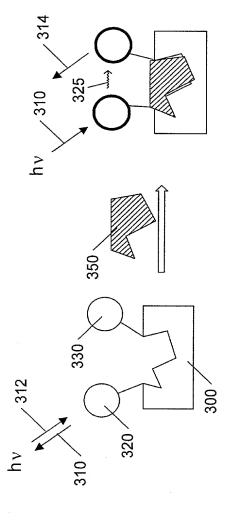


FIG. 4F



o-cresolphthalein complexone





F/G. 8

FIG. 9

Peptides

Nucleotides

FIG. 10

$$\begin{array}{c|c} & & & & \\ \hline H_2N-R_2-NHtBOC \\ \hline & 420 \\ \hline \end{array}$$

FIG. 11

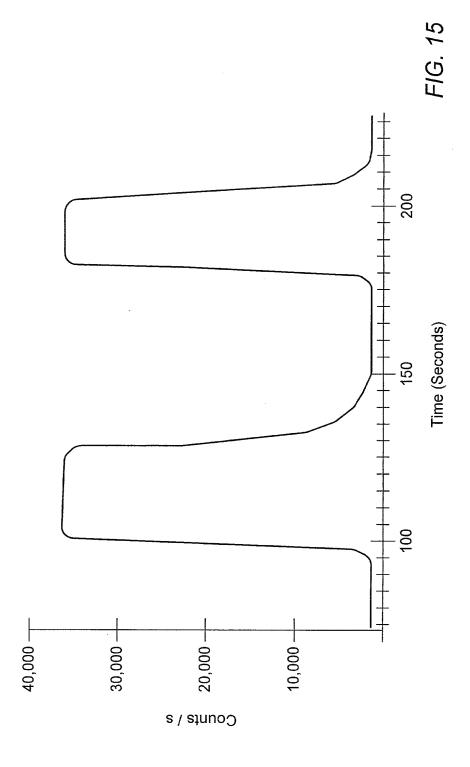
$$NH_{2}$$
 $H_{2}N - R_{1} - NH_{2}$ 
 $H_{2}N - R_{1} - NH_{2}$ 
 $H_{3}N - R_{1} - NH_{2}$ 
 $H_{2}N - R_{1} - NH_{2}$ 
 $H_{3}N - R_{1} - NH_{2}$ 
 $H_{3}N - R_{1} - NH_{2}$ 
 $H_{3}N - R_{1} - NH_{2}$ 

FIG. 12

FIG. 13

HO 
$$CO_2H$$
 $H_2N$ 
 $NH_2$ 
 $H_2N$ 
 $NH_2$ 
 $H_2N$ 
 $NH_2$ 
 $H_2N$ 
 $NH_2$ 
 $H_2N$ 
 $H_2N$ 

FIG. 14



1	RESIN:	Blank	Alizarin	o-Cresol-	Fluorescein	Alizarin-Ce <sup>3+</sup>
рН	lon			phthalein		complex
2	none	R G B	R G B	R G B	R G B	R G B
2	Ca <sup>2+</sup>	R G B	R G B	R G B	R G B	R G B
7	none	т G в	R G B	жжан 2777 К G в	R G B	R G B
7	Ca <sup>2+</sup>	ттеже <i>Ш</i> П	R G B	К С В	R G B	R G B
7	F -	R G B	R G B	R G B	R G B	R G B
12	none	R G B	R G B	R G B	R G B	R G B
12	Ca <sup>2+</sup>	R G B	R G B	R G S B	R G B	R G B
12	F <sup>-</sup>	R G B	R G B	с с в	R G B	R G B

FIG. 16

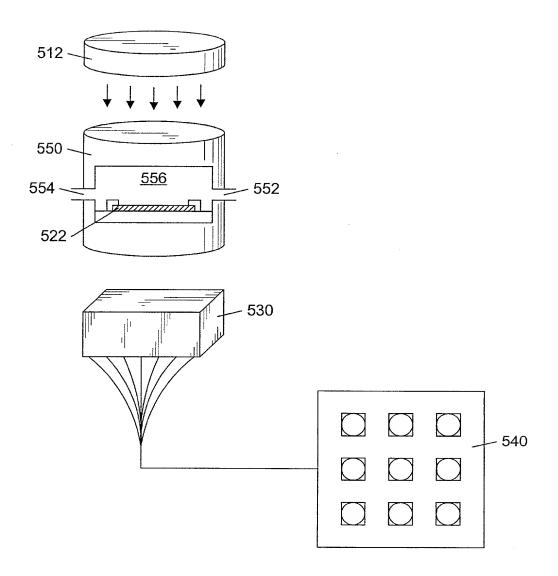


FIG. 17

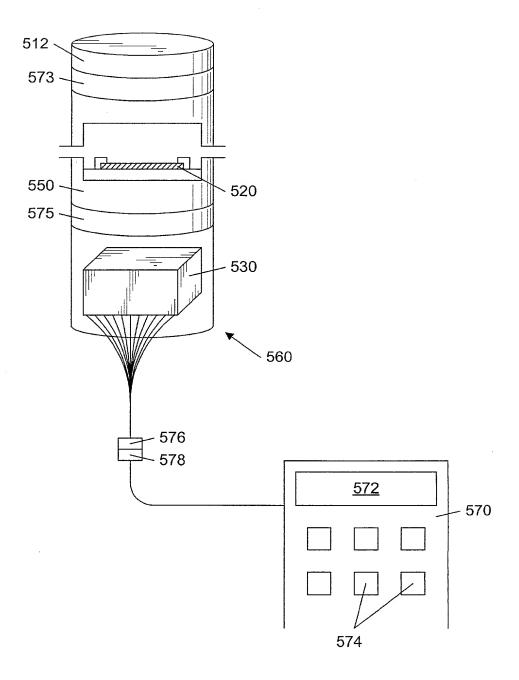
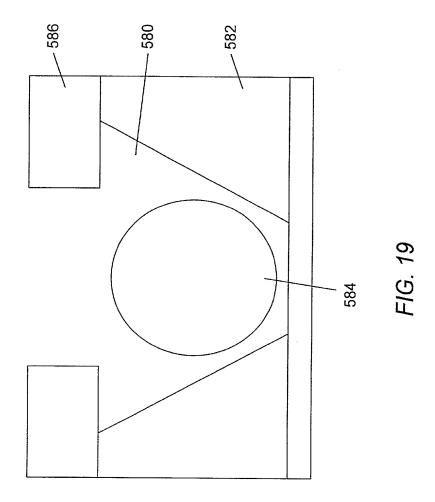
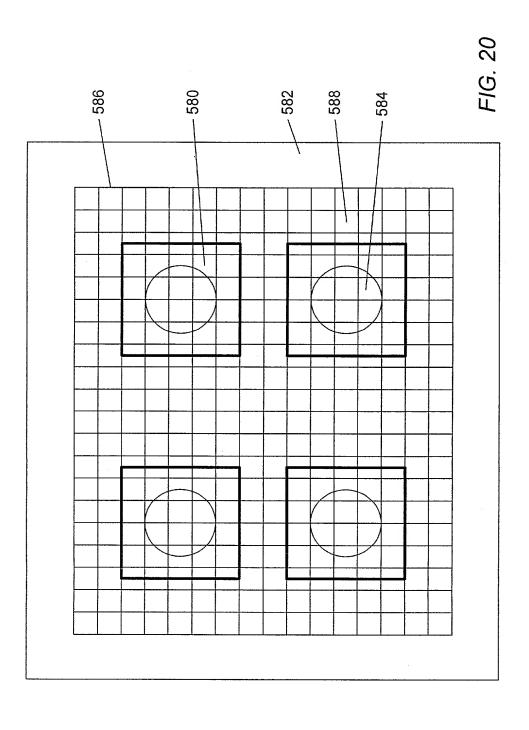


FIG. 18





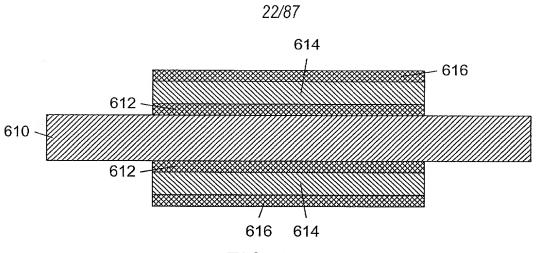


FIG. 21A

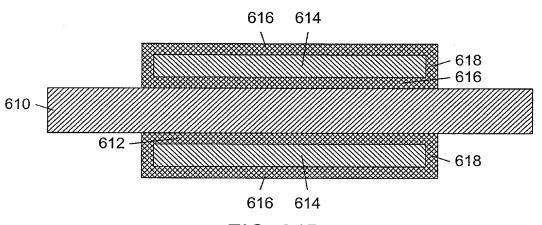


FIG. 21B

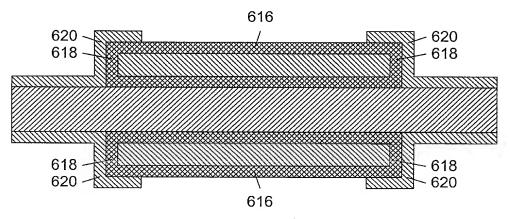


FIG. 21C

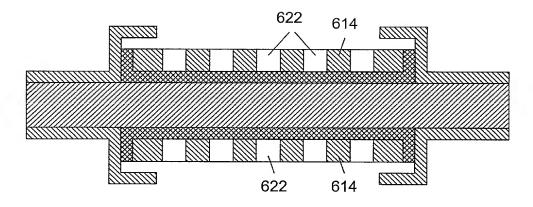
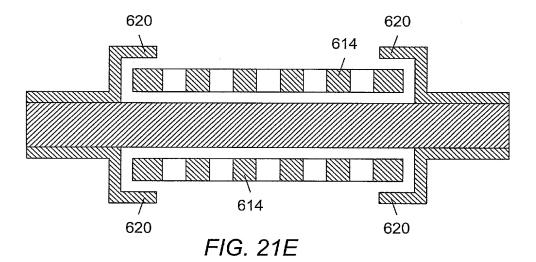


FIG. 21D



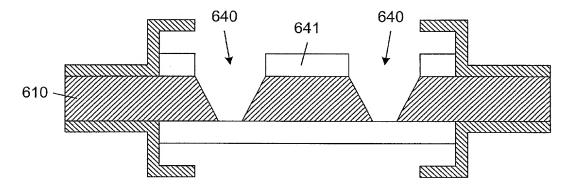


FIG. 21F

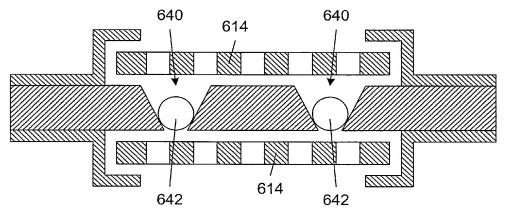
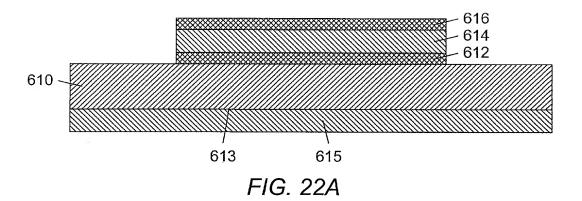


FIG. 21G



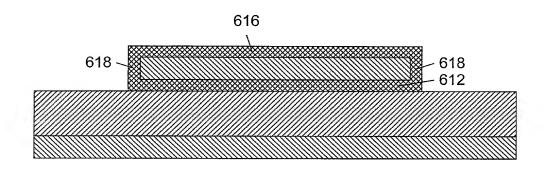


FIG. 22B

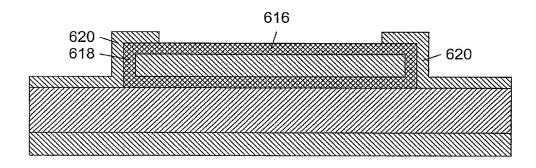
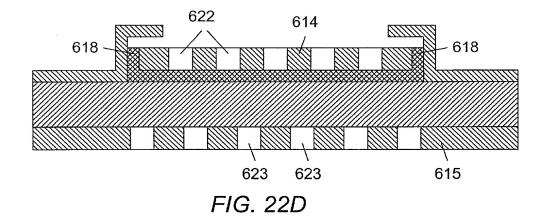


FIG. 22C



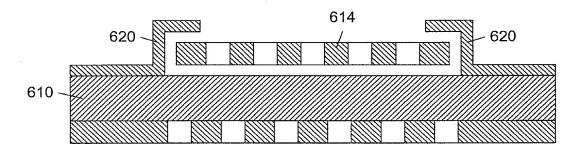


FIG. 22E

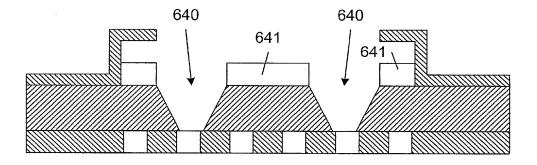


FIG. 22F

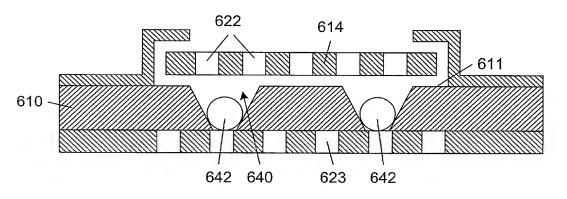


FIG. 22G

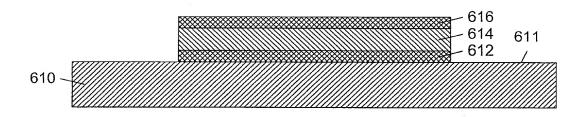


FIG. 23A

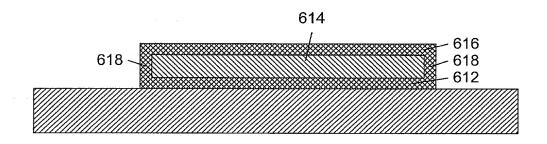


FIG. 23B

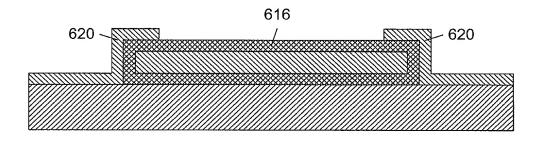


FIG. 23C

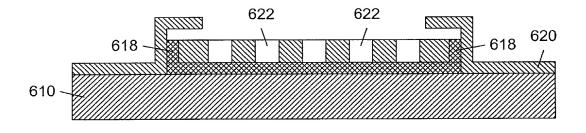


FIG. 23D

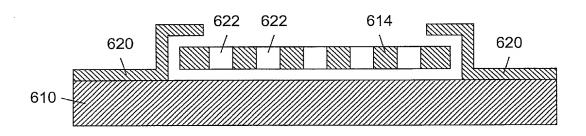


FIG. 23E

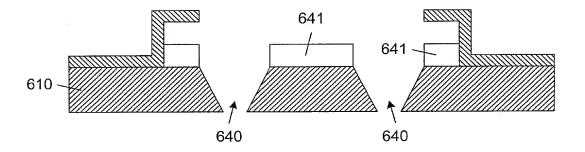


FIG. 23F

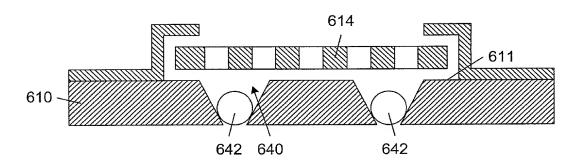


FIG. 23G

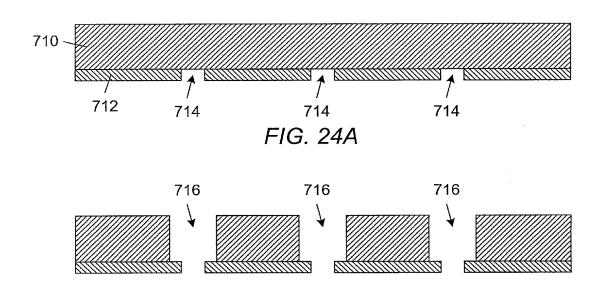


FIG. 24B

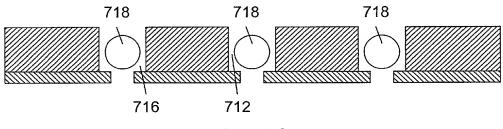


FIG. 24C

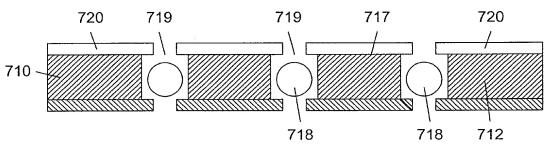


FIG. 24D

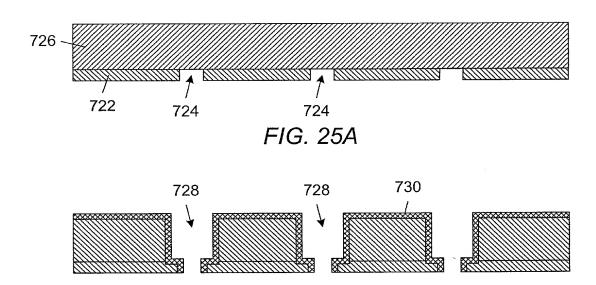
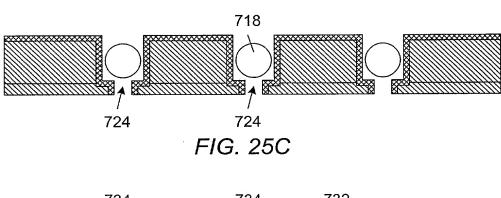


FIG. 25B



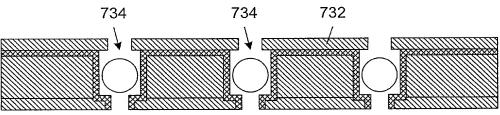


FIG. 25D

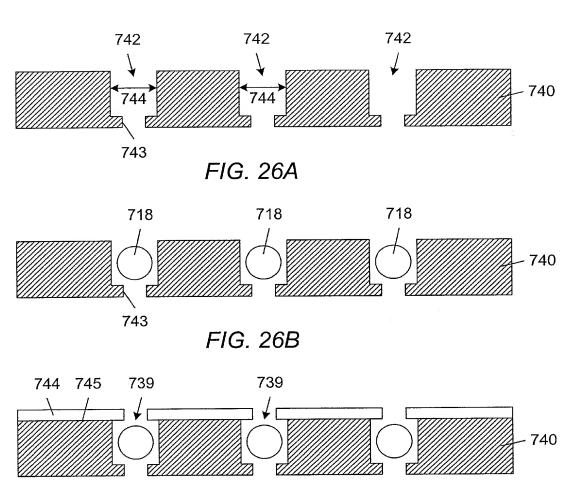
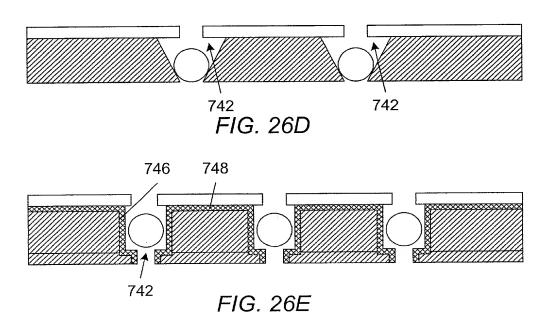


FIG. 26C



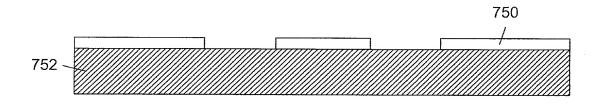


FIG. 27A

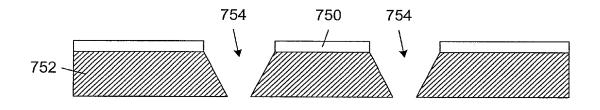


FIG. 27B

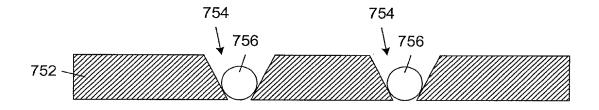
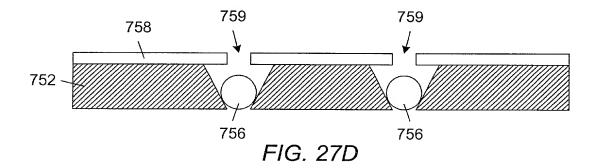
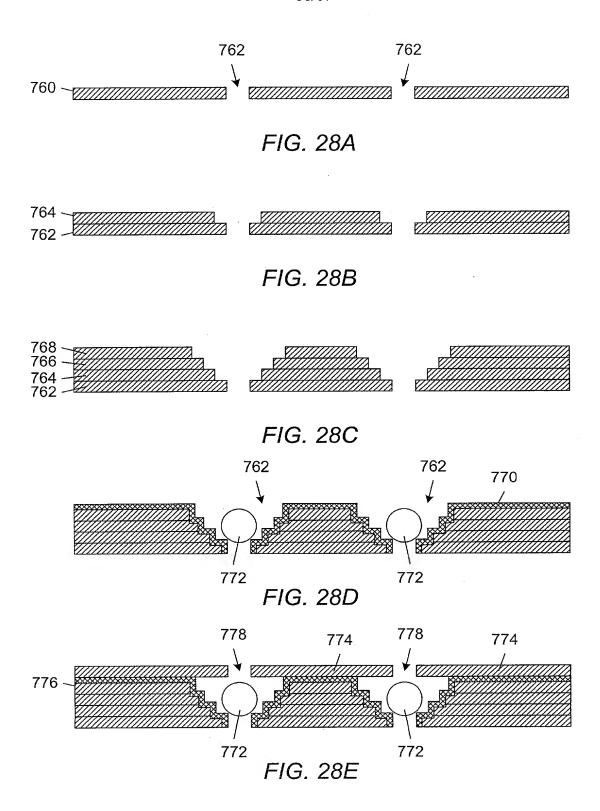


FIG. 27C





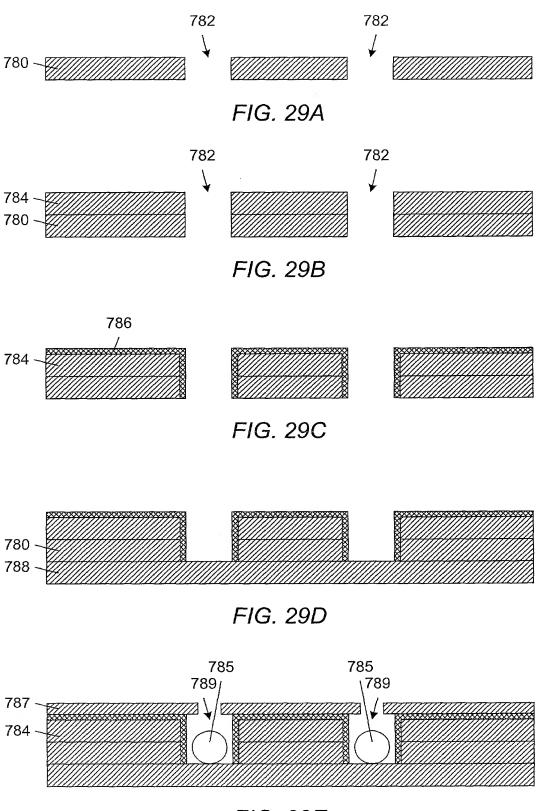
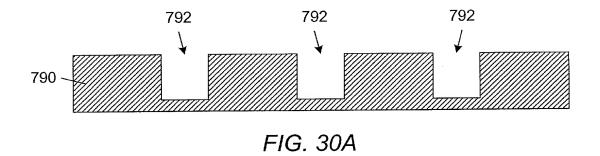
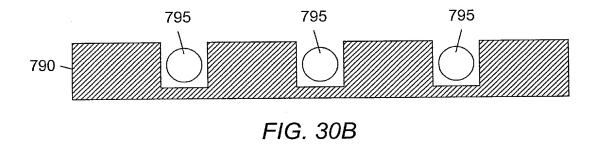
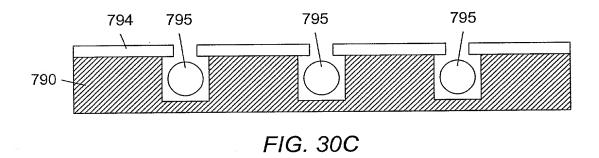


FIG. 29E

## 37/87







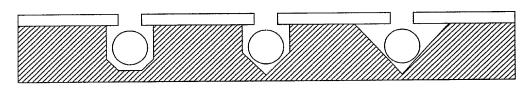
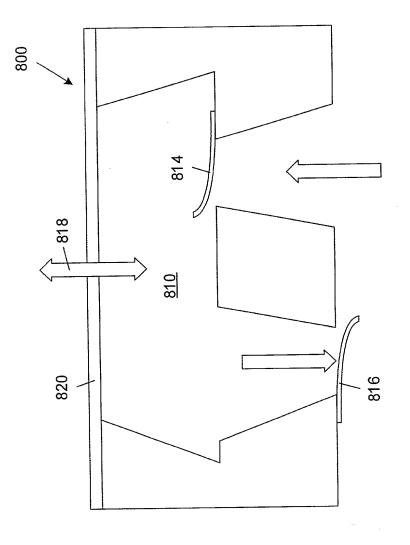


FIG. 30D



F/G. 31

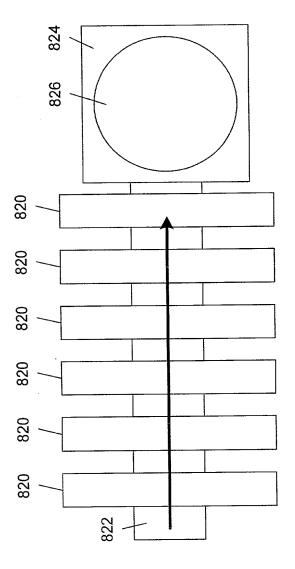
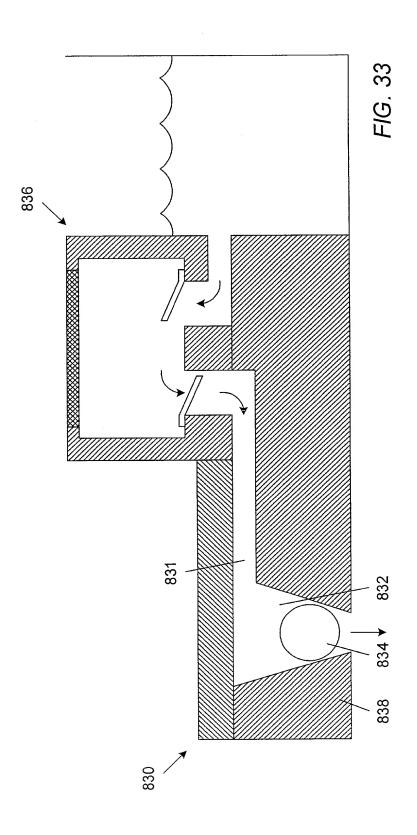
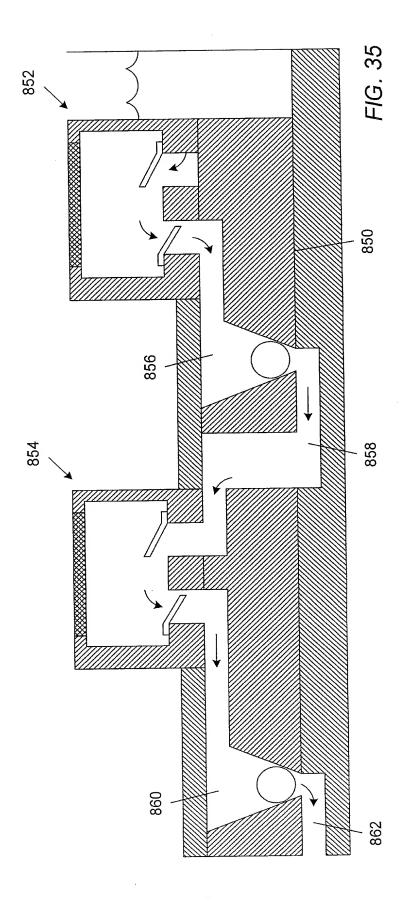


FIG. 32



MAZZEER. DEZINI



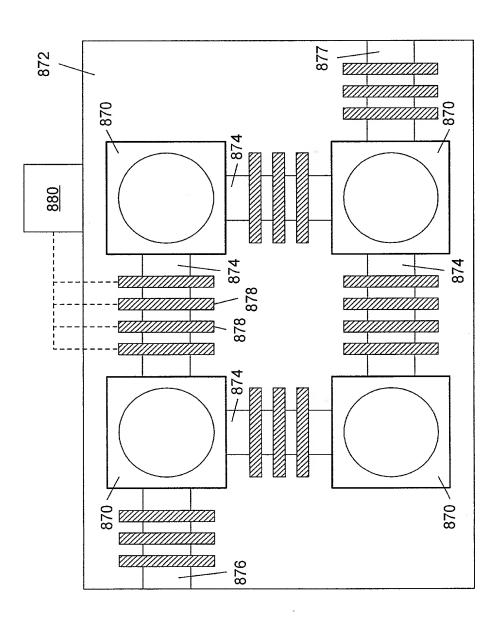
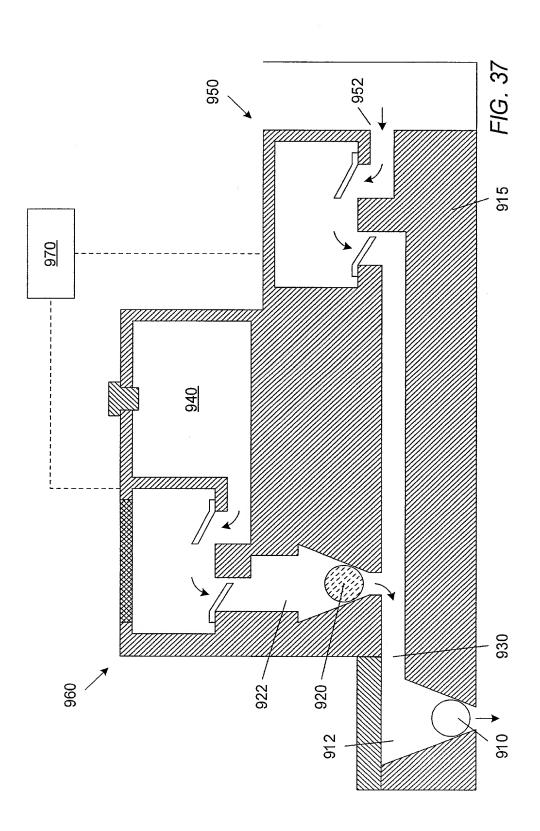
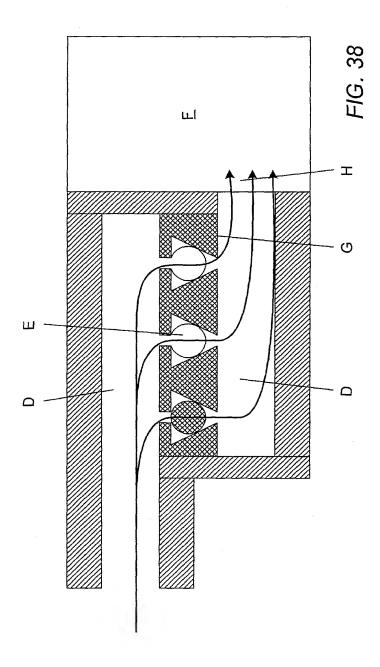
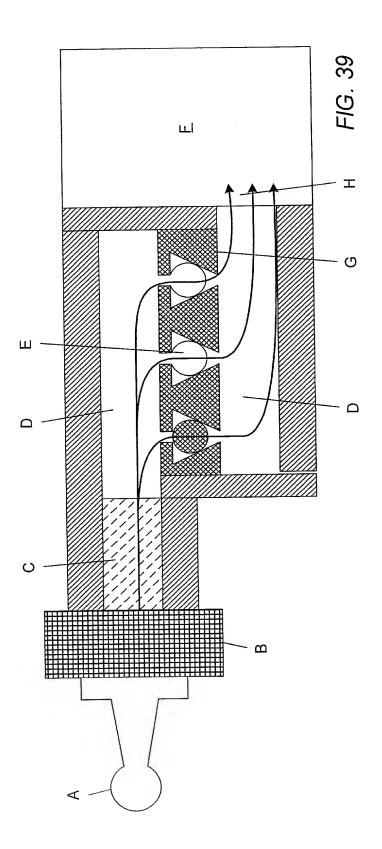


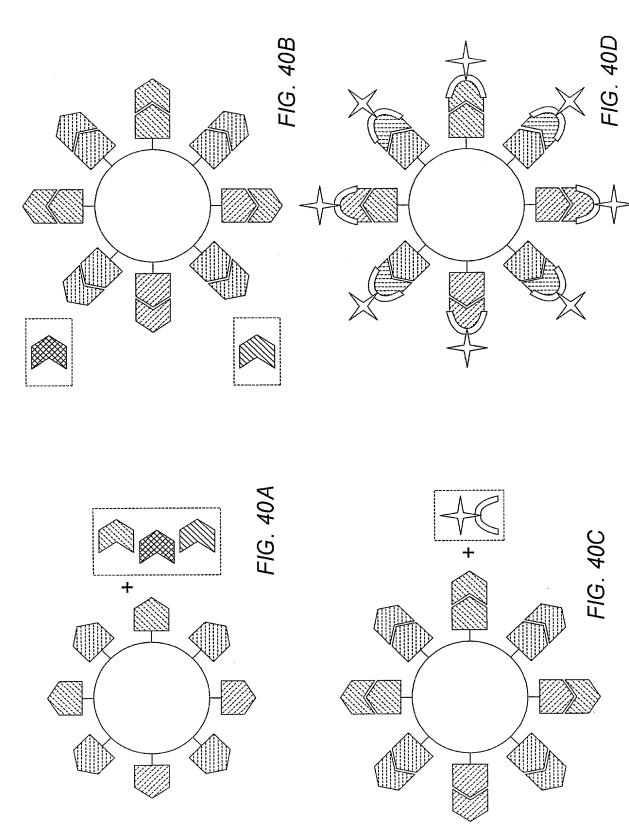
FIG. 36

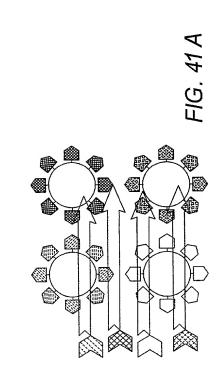


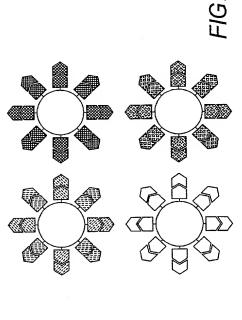


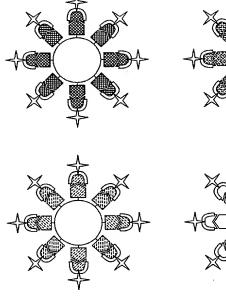
46/87

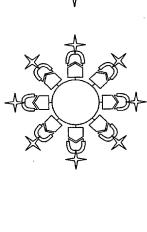


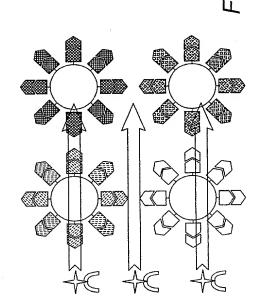


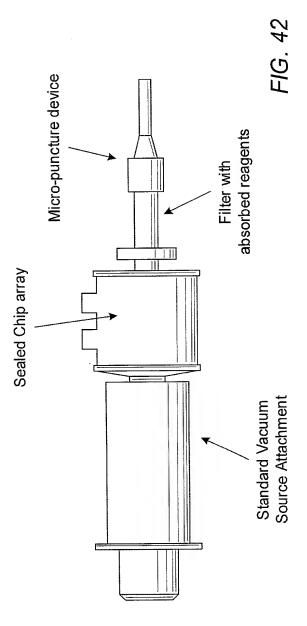


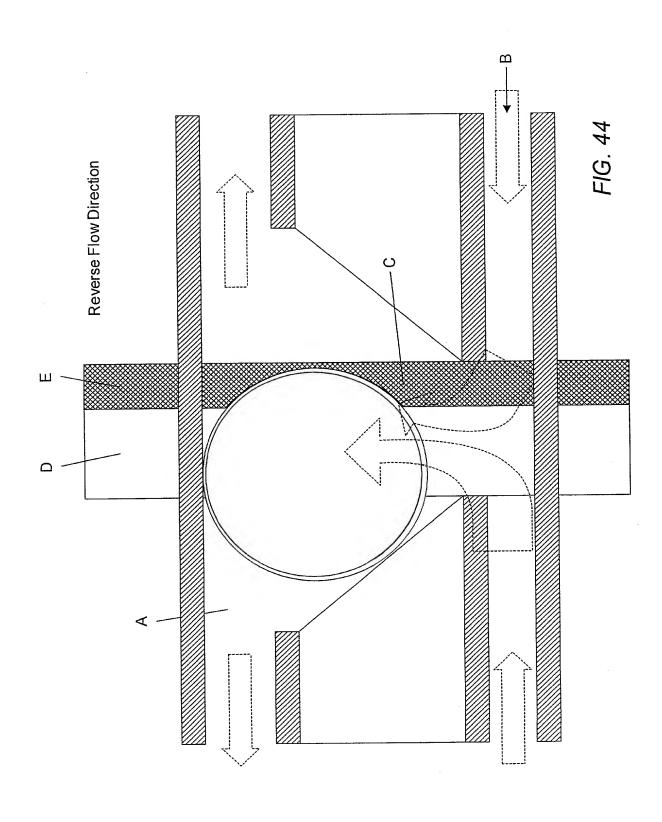












52/87

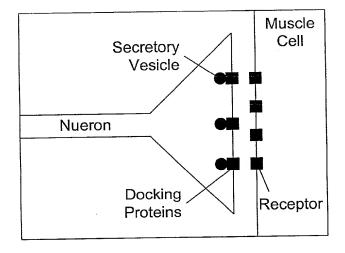


FIG. 45A

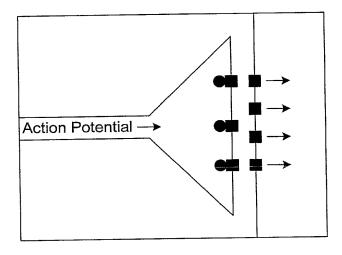


FIG. 45B

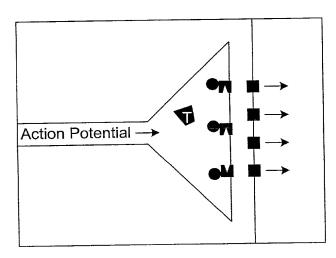


FIG. 45C

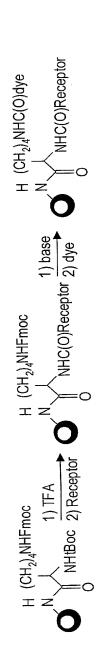


FIG. 45D

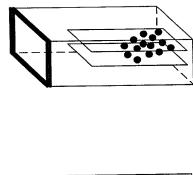


FIG. 46B

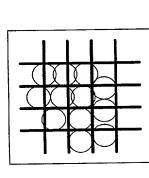
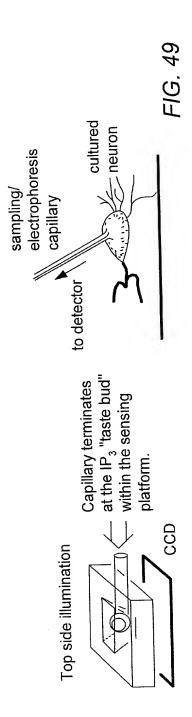
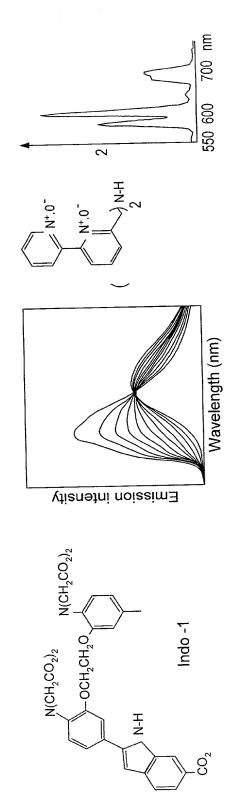


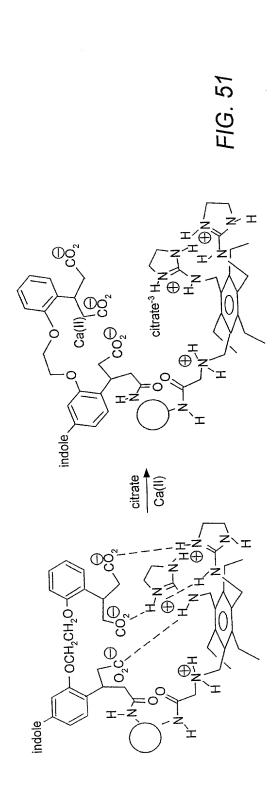
FIG. 46A

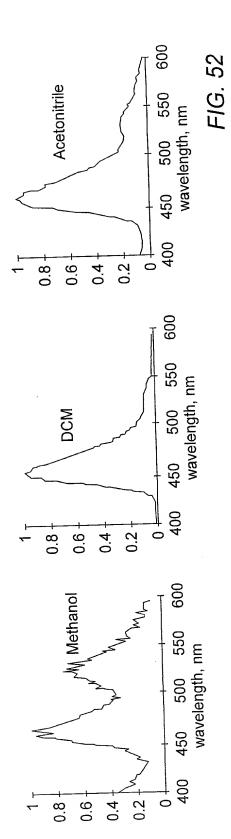
FIG. 47

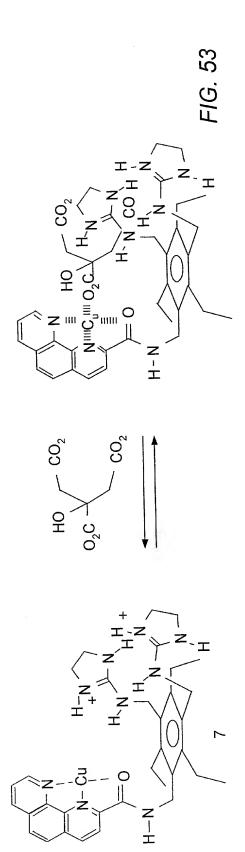
FIG. 48

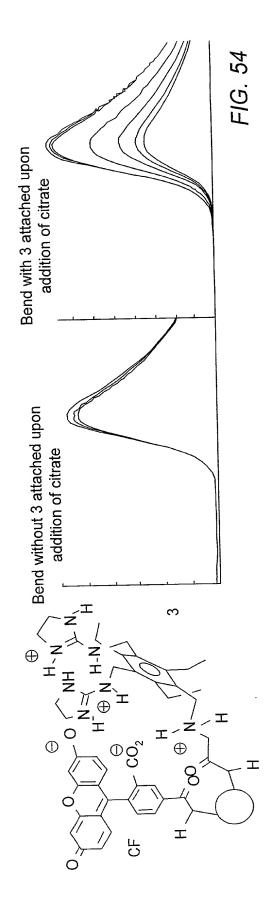


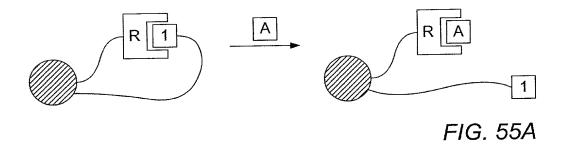


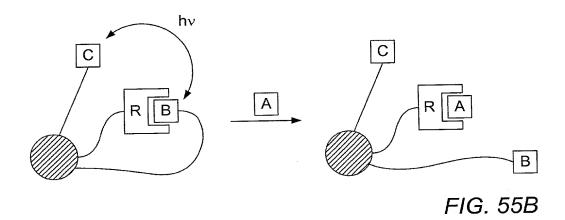












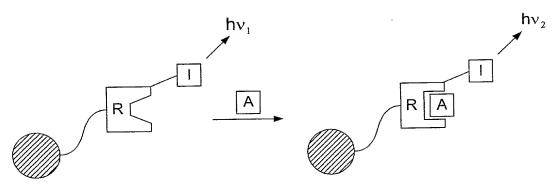


FIG. 55C

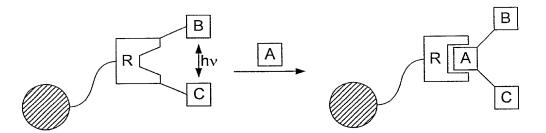
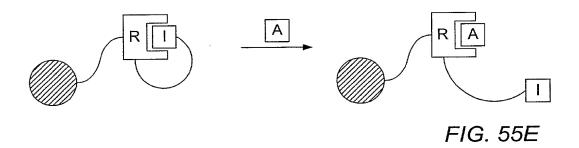
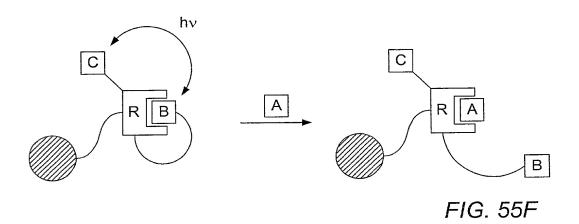
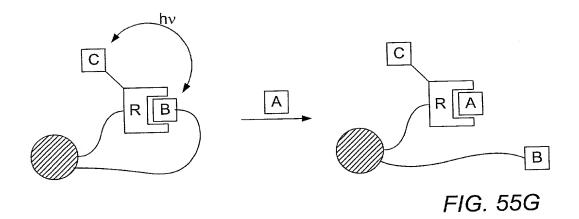
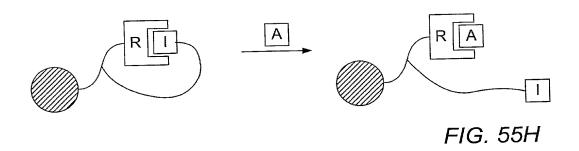


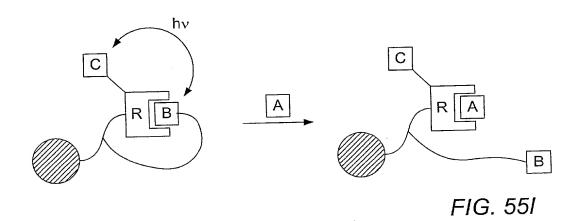
FIG. 55D











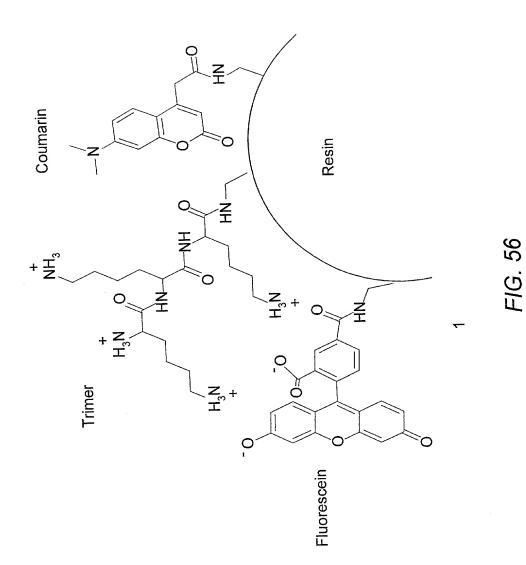


FIG. 57

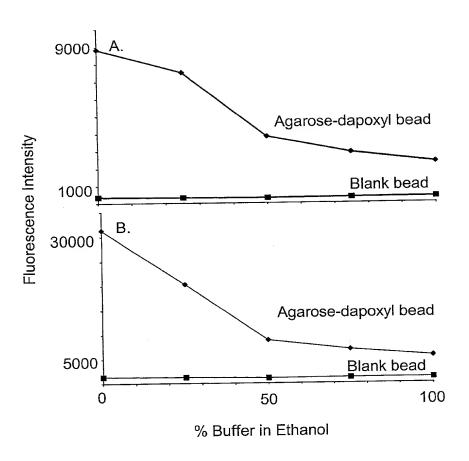
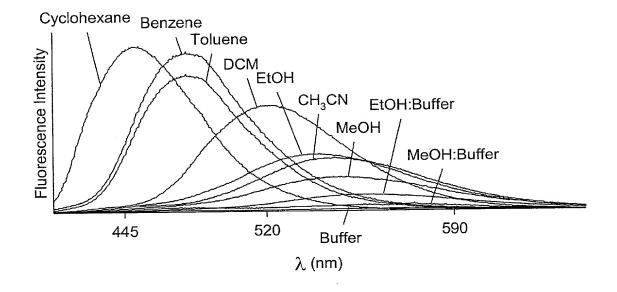
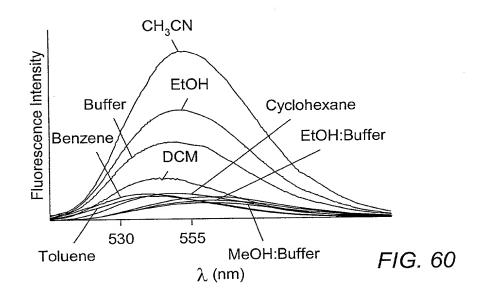


FIG. 58

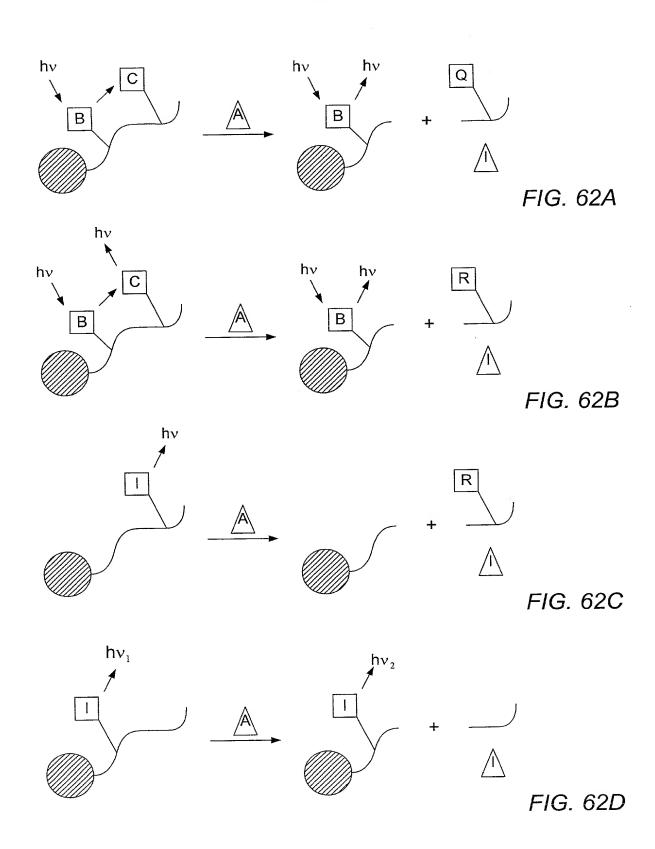
FIG. 59





2: 
$$X_1 = X_2 = H$$
 3:  $X_1 = X_2 = O$ 

FIG. 61



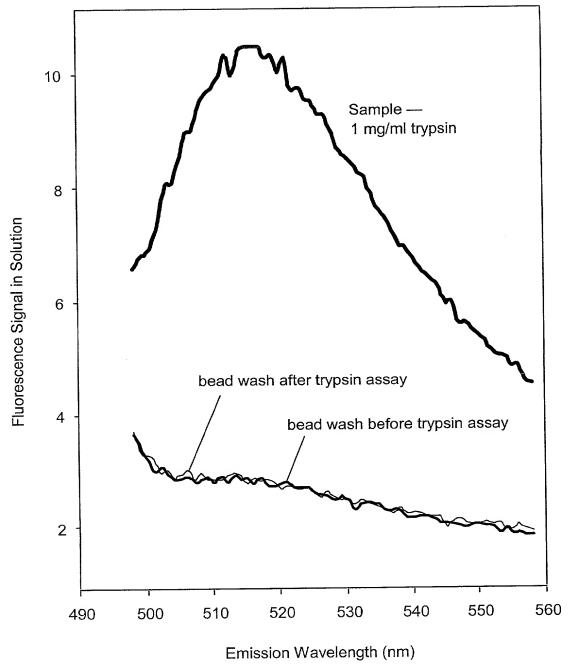


FIG. 63

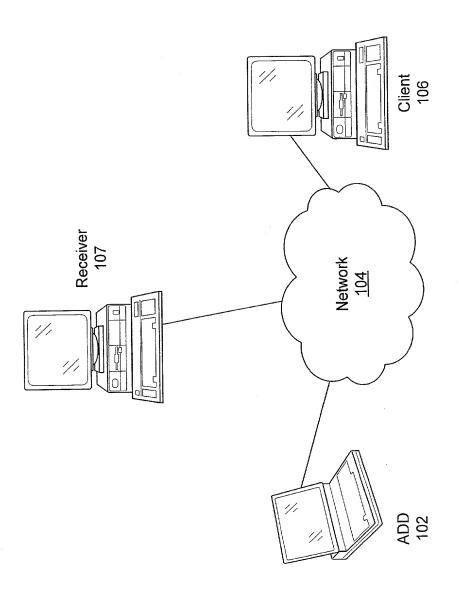


FIG. 64

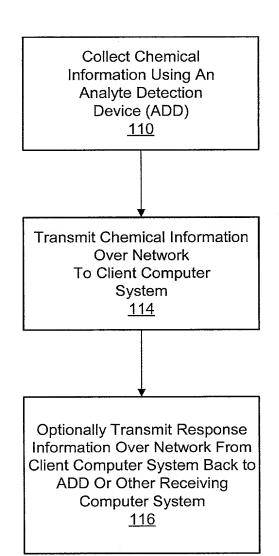
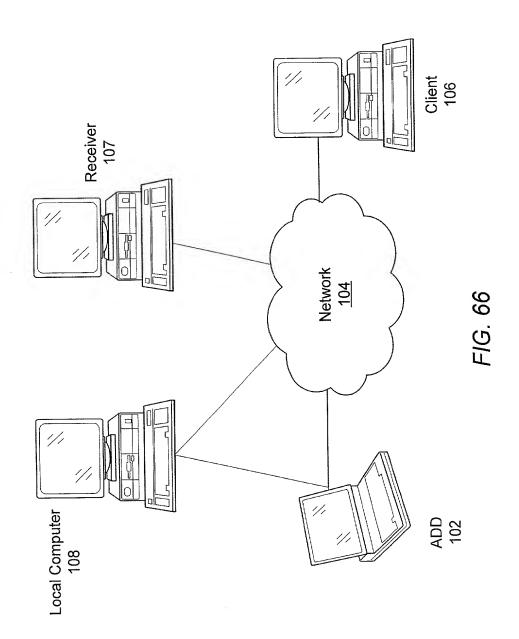


FIG. 65



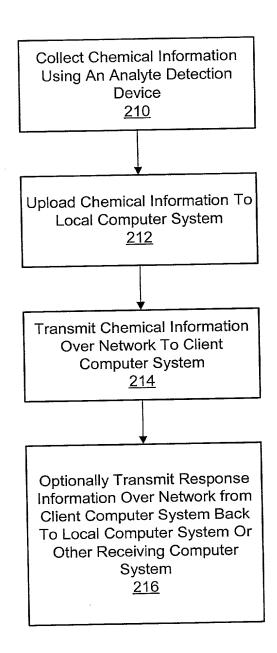
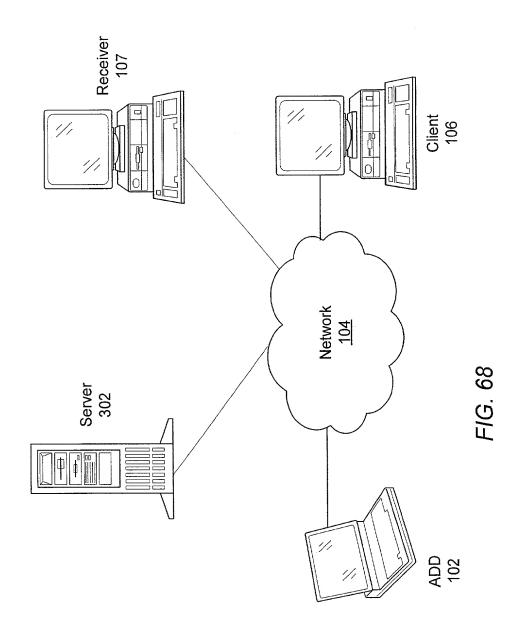


FIG. 67



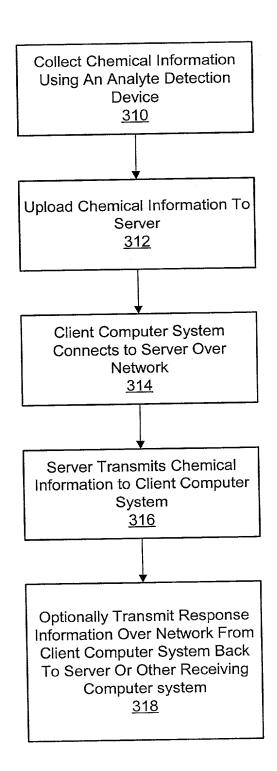


FIG. 69

## 76/87

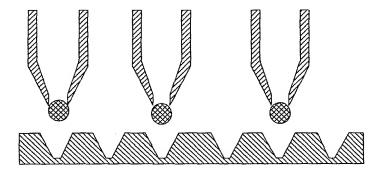


FIG. 70A

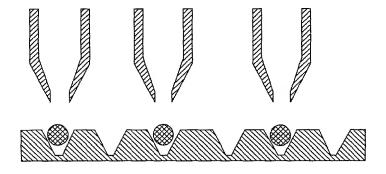


FIG. 70B

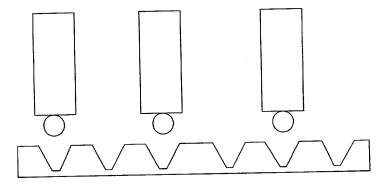


FIG. 71A

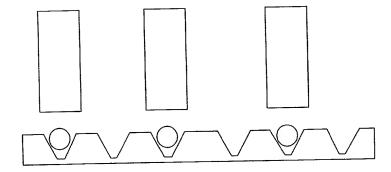


FIG. 71B

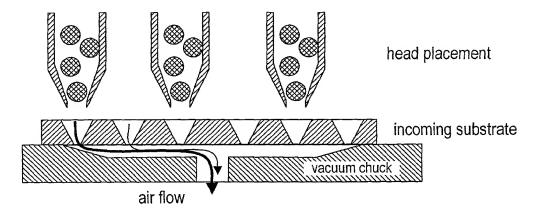


FIG. 72A

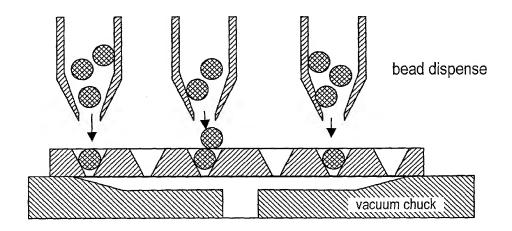


FIG. 72B

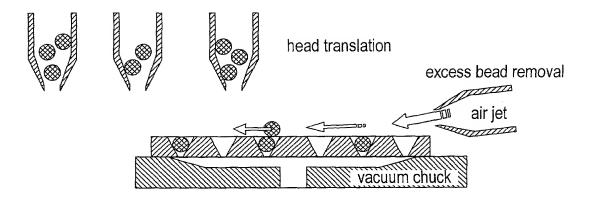


FIG. 72C

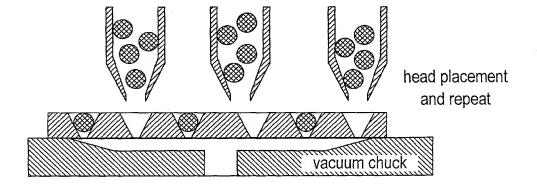


FIG. 72D

## 80/87

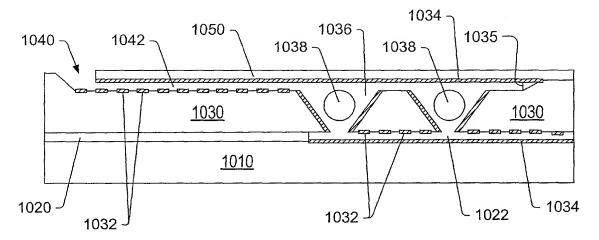


FIG. 73

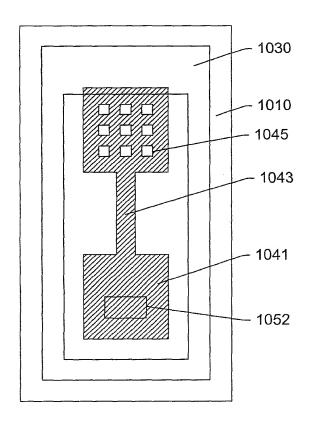


FIG. 74A

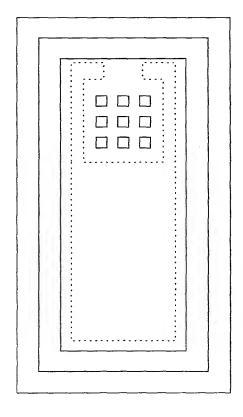
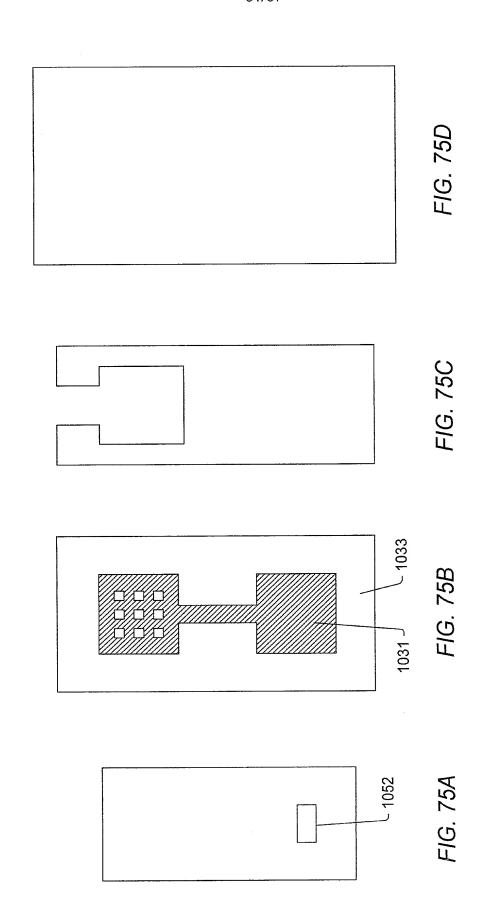


FIG. 74B



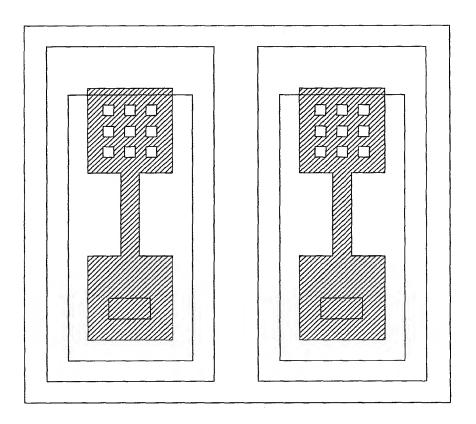
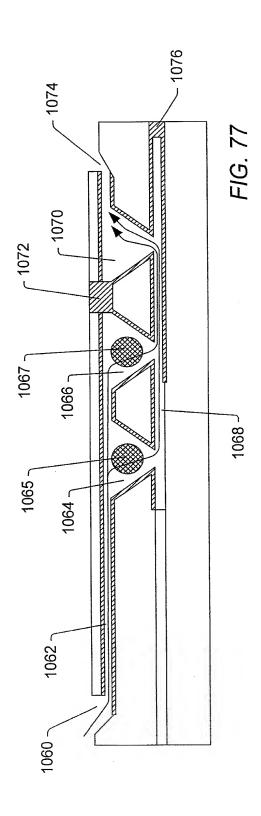


FIG. 76



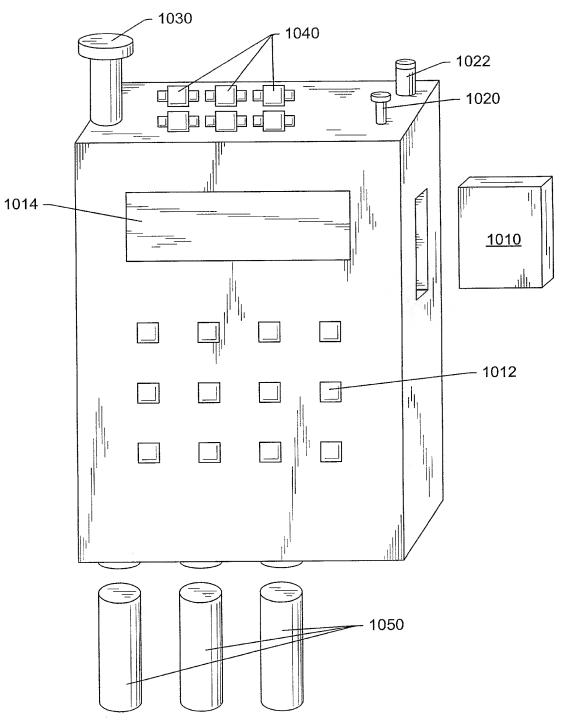


FIG. 78

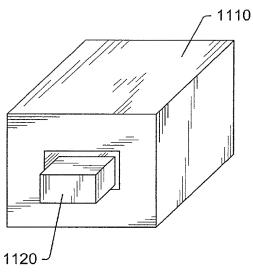


FIG. 79A

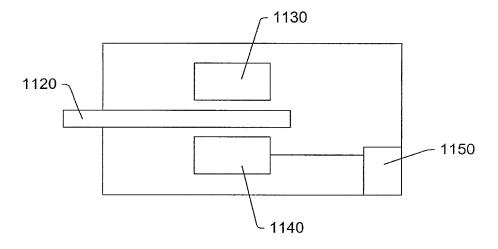


FIG. 79B

